WATERBORNE TRANSPORTATION LINES OF THE UNITED STATES

Calendar Year 1999

Volume 1 –
National Summaries

Compiled under the supervision of
the Institute for Water Resources
U.S. Army Corps of Engineers
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Contents

Introduction

The annual revision of the *Waterborne Transportation Lines of the United States* (**WTLUS**) contains summary information of the vessel companies and their American flag vessels operating or available for operation on 31 December 1999 in the transportation of freight and passengers. Beginning with this edition of the **WTLUS** general ferry[1] operators that report their vessel movements to the U.S. Army Corps of Engineers and their ferry characteristics are included. Floating equipment used in construction work, such as dredges, piledrivers, and flats; fishing vessels; and recreational craft are not included. The **WTLUS** is prepared under authority contained in the Rivers and Harbors Appropriations Act approved 22 September 1922, (42 Stat. 1043), as amended, and codified in 33 U.S.C. 555.

The **National Summaries, Volume 1**, is one of three publications for the annual revision of the **WTLUS**, which provides a condensation of the vessel data detailed in the **WTLUS**. Summarized vessel characteristics are represented in both tabular and graphic format.

The **Vessel Company Summary, Volume 2**, provides a summary of the vessel companies detailed in the **WTLUS, Vessel Characteristics, Volume 3**. The names of the vessel companies are listed alphabetically with their business address and telephone number, the Engineer District number, the TSOperator (vessel company) number (for usage in querying computer data), principal commodities carried, the points or localities and waterways between which or on which operated and the number of vessels reported by vessel type.

The **Vessel Characteristics, Volume 3**, lists the vessel companies in alphabetical sequence and describes each vessel surveyed by indicating its name and number, Coast Guard number, net tonnage, type by VTCC code (Vessel Type, Construction and Characteristics) and ICST code (International Classification of Ships by Type; see Terminology for VTCC and ICST), register and overall length and breadth, loaded and light draft, horsepower, carrying capacity in short tons or units of cargo and number of passengers, height of fixed superstructures, cargo handling equipment, operating headquarters, and year built or rebuilt. Detail vessel characteristics may not be available for all vessels included in the total **WTLUS** vessel inventory.

The detail vessel data is available upon request on diskettes or CD-ROM. Ordering information is available from the Waterborne Commerce Statistics Center, P.O. Box 61280, New Orleans, LA 70161-1280. (Telephone 504/862-1424 or FAX 504/862-1423).

The **WTLUS** publication is a by-product of the Waterborne Commerce Statistics Center (WCSC) Master Vessel File. The annual survey would be done even if there were no **WTLUS** publication because the survey is a necessary and integral part of the WCSC enforcement and collection program. Tracking vessel owners and operators is the primary means of identifying non-reporting carriers and new vessel operating companies.

1. A general ferry is one which conveys passengers and vehicles (driven on and off the vessel) across a narrow body of water (river, strait, inlet, etc.).

Terminology

TSOperator: (Vessel Company) a Transportation Lines vessel company surveyed and assigned a seven digit code by the Waterborne Commerce Statistics Center (WCSC). The vessel inventory for each TSOperator is reported annually to WCSC and is contained in the Master Vessel File. The first two digits of the TSOperator code denotes the Engineer Division / District code with the last five digits forming a unique number assigned to a particular TSOperator. There are 2,392 TSOperators listed in the WTLUS publication for calendar year 1999.

Engineer Division / District: (ENGR DIST) WCSC two digit code for the U.S. Army Corps of Engineer Division / District. Its usage in the TSOperator code is to identify where the vessel company is domiciled.

01	New England Division	29	St. Louis, MO
03	New York, NY	30	Memphis, TN
07	Philadelphia, PA	31	Vicksburg, MS
09	Baltimore, MD	32	New Orleans, LA
11	Norfolk, VA	33	Galveston, TX
12	Wilmington, NC	34	Little Rock, AR
13	Charleston, SC	35	Kansas City, MO
14	Savannah, GA	36	Seattle, WA
15	Jacksonville, FL	37	Portland, OR
16	Mobile, AL	38	Alaska
17	Nashville, TN	39	San Francisco, CA
18	Louisville, KY	40	Sacramento, CA
20	Huntington, WV	41	Los Angeles, CA
21	Pittsburgh, PA	42	Pacific Ocean Division
22	Buffalo, NY	43	Omaha, NE
23	Detroit, MI	44	Walla Walla, WA
26	Chicago, IL	45	Tulsa, OK
27	St. Paul, MN	46	Fort Worth, TX
28	Rock Island, IL	47	Albuquerque, NM

Coast Guard Number: the official number assigned to a particular vessel by the U.S. Coast Guard at the time of registration. This number is normally retained by a vessel throughout the life of the vessel.

Net Tonnage: the volume of space available for the accommodation of passengers and the stowage of cargo, expressed in units of 100 cubic feet for each net ton. The net tonnage is recorded on the vessel's registration papers or it can be determined as the difference between gross tonnage and the volume of space used for the accommodation of the vessel master, officers, crew, navigation and propelling machinery expressed in units of 100 cubic feet per ton. The net tonnage should not be confused with a tonnage capacity because it simply expresses a volume capacity for passengers and cargo. Depending on the type of cargo being transported the tonnage that can be stowed in the volume of 100 cubic feet will vary, although generally speaking, the total tonnage capacity should not exceed three times the net tonnage of the vessel.

VTCC Code: Vessel Type, Construction and Characteristics code, which describes in general terms the vessel type, construction and characteristics of the marine structure; e.g. 2A22 represents the code for a self-propelled, liquid bulk tanker constructed of steel. See the "Explanation of Vessel Type, Construction and Characteristics" listing for descriptions of the VTCC codes on page vi.

ICST Code: International Classification of Ships by Type was developed by an ad hoc international advisory group on Maritime Statistics and completed in 1994. The classification is based on the construction characteristics of the marine structure and not upon its particular use or cargo carried at a point in time. The ICST codes and descriptions and the cross reference list between the VTCC and ICST codes are provided on pages v and vii, respectively.

Length

Register: (LENGTH REG.) the length of the vessel measured on the top of the tonnage deck from the forepart of the outer planking or plating at the bow to the afterpart of the sternpost of screw steamers and to the afterpart of the rudder post of other vessels. The register length is reported in units of feet to the nearest tenth.

Overall: the extreme length of the vessel which would include any structure which extends beyond the outer planking or plating on the bow or any structure that extends beyond the sternpost on screw steamers and to the afterpart of the rudder post of other vessels. The overall length is reported in units of feet to the nearest tenth.

Breadth

Register: (BRDTH REG.) the breadth of the vessel at its widest part measured from the outerside of the planking or plating on one side to the corresponding point on the opposite side, reported in units of feet to the nearest tenth.

Overall: the extreme breadth of maximum breadth of the vessel to the outside of the vessel's structure, reported in units of feet to the nearest tenth. Includes the paddle boxes in paddle ships.

Draft

Loaded: the draft of the vessel when fully loaded, reported in units of feet to the nearest tenth.

Light: the draft of the vessel when it is empty, reported in units of feet to the nearest tenth.

Horsepower: horsepower rating when the vessel was new or when the present engine was installed.

Capacity Tons: (cargo capacity) the full load capacity of the vessel in short tons (2,000 lbs.).

Passengers: the passenger capacity of the vessel in units.

Capacity Reference: designates a type of cargo carried by that particular vessel as defined:

Character	Type of Cargo
Blank	General Bulk Cargo
+	Railroad Cars
#	Autos, Vehicles, Trailers
%	Cargo Capacity Railroad Cars
@	Vans
&	Container

Highest Fixed Point: the height of the highest fixed point on the vessel in units of feet to the nearest tenth. The height represents the distance between the waterline of the vessel (when light) and the highest fixed point on the vessel, such as a pilot house, mast, etc. If the highest point of a vessel is a hinged stack or retractable pilot house, the distance is given to the hinge or top of pilot house in lowered position.

Cargo Handling Equipment: permanent fixtures on the vessel, such as cranes, derricks, hoists, pumps, etc. and handling capacity and type of power used to operate the equipment, such as steam, electric, diesel, etc. LINE-1 and LINE-2 break up the descriptive data to print in a two line format.

State Code: the U.S. Postal code for state abbreviation for the operating headquarters of the vessel.

Vessel Operating Base: the city or locality of the operating headquarters of the vessel. LINE-1 and LINE-2 break up the descriptive data to print in a two line format.

Year Built: the calendar year the vessel was built or rebuilt.

Rebuilt: An asterisk specifies that the year given will be the year the vessel was rebuilt rather than the year built. Rebuilt status is a vessel modification or significant improvement that extends the working life of the vessel. This status is left to the discretion of the vessel company surveyed.

Vessel Category Cross Reference List

Vessel Categories	VTCC Characteristics Code	ICST Code
Self-Propelled		
Dry Bulk Carrier	06	229
Containership	07	310
General Cargo Carrier	03, 04, 05, 08, 09 and 12	333, 334, 335 and 336
Specialised Carrier	10, 13, 14 and 15	321, 325 and 329
Tanker	20, 21, 22, 23 and 24	114, 120, 139 and 199
Pushboat	35	432
Tugboat	36	431
Passenger	11 and 16	351 and 359
Offshore Support Vessel	02	422
Non-Self-Propelled		
Dry Covered Barge	41 and 48	345
Dry Open Barge	40 and 47	344
Deck Barge	43	341
Lash / Seabee Barge	52	343
Other Dry Barge	42, 44, 49, 50, 90, and 99	349
Single Hull Tank Barge	70	141
Double Hull Tank Barge	71	142
Other Tank Barge	72, 73 and 74	143, 144 and 149

Explanation of the International Classification of Ships by Type (ICST Codes)

114 Liquid Oil Tanker (Oil / Chemical)
120 Liquid Chemical Tanker
139 Liquid Gas Carrier (Other)
141 Liquid Tank Barge (Single Hull)
142 Liquid Tank Barge (Double Hull)
143 Liquid Tank Barge (Double Sided Only)
144 Liquid Tank Barge (Double Bottom Only)
149 Liquid Tank Barge (Other)
199 Liquid Other Tanker
229 Dry Bulk (Other) Carrier
310 Containership (Specialised)
321 Barge Carrier (Specialised)
325 Vehicle Carrier (Specialised)
329 Other Carriers (Specialised)
333 General Cargo RO-RO / Container
334 Other RO-RO Cargo (General Cargo)
335 General Cargo / Passenger
336 General Cargo / Container
344 Open Dry Cargo Barge
345 Dry Cargo Covered Barge
341 Dry Cargo Deck Barge
343 Dry Cargo Lash / Seabee Barge
349 Dry Cargo Other Barge
351 Passenger (Cruise)
359 Passenger (Other)
422 Offshore Support Vessel
431 Tugboat
432 Pushboat

Explanation of Vessel Type, Construction and Characteristics (VTCC Code)

Construction:

- A Steel
- B Wood
- C Aluminum
- D Fiberglass
- E Other
- F Unknown

Type: 1 Self-Propelled, Dry Cargo

Characteristics:

- 02 Crewboat / Supply / Utility Vessel
- 03 General Cargo Freighter
- 04 Break Bulk / RO-RO Carrier
- 05 RO-RO Vessel
- 06 Bulk Carrier
- 07 Containership
- 08 Partial Containership
- 09 Container / Vehicle / Trailer (RO-RO) Carrier
- 10 Vehicle Carrier
- 11 Passenger Carrier
- 12 Combination Passenger and Cargo
- 13 Ferry
- 14 Railroad Car Ferry
- 15 Lash Vessel
- 16 Excursion / Sightseeing Vessel

Type: 2 Self-Propelled, Tanker

Characteristics:

- 20 Petroleum / Chemical Carrier
- 21 Chemical Carrier
- 22 Liquid Bulk Tanker
- 23 Liquid Gas Carrier
- 24 Other Tanker

Type: 3 Towboat

Characteristics:

- 35 Pushboat
- 36 Tugboat

Type: 4 Non-Self-Propelled, Dry Cargo

Characteristics:

- 40 Open Hopper Barge
- 41 Covered Hopper Barge
- 42 Carfloat (Railroad Car Barge)
- 43 Flat / Deck Barge
- 44 Pontoon Barge
- 47 Open Dry Cargo Barge
- 48 Covered Dry Cargo Barge
- 49 RO-RO Barge
- 50 Container Barge
- 52 Lash / Seabee Barge
- 90 Convertible Barge
- 99 Other

Type: 5 Non-Self-Propelled, Tanker

Characteristics:

- 70 Liquid Cargo Barge (Single Hull)
- 71 Liquid Cargo Barge (Double Hull)
- 72 Liquid Cargo Barge (Double Sided Only)
- 73 Liquid Cargo Barge (Double Bottom Only)
- 74 Other Liquid Cargo Barge, Not Elsewhere Included

Type: 6 Other

Characteristics:

- 01 Undefined

Vessel Category Cross Reference List

International Classification of Ships by Type (ICST)		Vessel Type, Construction and Characteristics (VTCC)	
114	Liquid Oil Tanker (Oil / Chemical)	20	Petroleum / Chemical Carrier
120	Liquid Chemical Tanker	21	Chemical Carrier
139	Liquid Gas Carrier (Other)	23	Liquid Gas Carrier
141	Liquid Tank Barge (Single Hull)	70	Liquid Cargo Barge (Single Hull)
142	Liquid Tank Barge (Double Hull)	71	Liquid Cargo Barge (Double Hull)
143	Liquid Tank Barge (Double Sided Only)	72	Liquid Cargo Barge (Double Sided Only)
144	Liquid Tank Barge (Double Bottom Only)	73	Liquid Cargo Barge (Double Bottom Only)
149	Liquid Tank Barge (Other)	74	Liquid Cargo Barge, Not Elsewhere Included
199	Liquid Other Tanker	22	Liquid Bulk Tanker
		24	Other Tanker
229	Dry Bulk (Other) Carrier	06	Bulk Carrier
310	Containership (Specialised)	07	Containership
321	Barge Carrier (Specialised)	15	Lash Vessel
325	Vehicle Carrier (Specialised)	10	Vehicle Carrier
329	Other Carriers (Specialised)	13	Ferry
		14	Railroad Car Ferry
333	General Cargo RO-RO / Container	09	Container / Vehicle / Trailer (RO-RO) Carrier
334	Other RO-RO Cargo (General Cargo)	04	Break Bulk / RO-RO Carrier
		05	RO-RO Vessel
335	General Cargo / Passenger	03	General Cargo Freighter
		12	Combination Passenger and Cargo
336	General Cargo / Container	08	Partial Containership
341	Dry Cargo Deck Barge	43	Flat / Deck Barge
343	Dry Cargo Lash / Seabee Barge	52	Lash / Seabee Barge
344	Open Dry Cargo Barge	40	Open Hopper Barge
		47	Open Dry Cargo Barge
345	Dry Cargo Covered Barge	41	Covered Hopper Barge
		48	Covered Dry Cargo Barge
349	Dry Cargo Other Barge	42	Carfloat (Railroad Car Barge)
		44	Pontoon Barge
		49	RO-RO Barge
		50	Container Barge
		90	Convertible Barge
		99	Other
351	Passenger (Cruise)	11	Passenger Carrier
359	Passenger (Other)	16	Excursion / Sightseeing Vessel
422	Offshore Support Vessel	02	Crewboat / Supply / Utility Vessel
431	Tugboat	36	Tugboat
432	Pushboat	35	Pushboat

Selected Inland Commercial Vessels

These vessels are commonly used in the transport of commodities on the inland waterway system. This is not intended to be a complete description of all merchant vessels using the inland waterway system

Self-Propelled

Tugboat: Self-propelled vessel with a V - shaped bow designed for the towing (and pushing) of ships or other floating structures such as barges in ports/harbors.

Towboat/Push Boat: Self-propelled vessel designed to tow/push barges and pontoons. The hull is usually rectangular in plan and has little freeboard. A pair of knees of ample strength and height engage barges of various depths to maneuver the tow.

Non-Self-Propelled

Barge: A category of vessel designed as non-self-propelled units for the carriage of cargo on the weather deck or in holds or in tanks. The units are towed/pushed by another ship (tug or pusher vessel).

Dry Cargo Barge: Non-self-propelled vessel, usually flat bottomed and rectangular in structure with cargo space below deck. The cargo space may be covered or uncovered. Usually used to transport bulk commodities on rivers and canals. The industry commonly refers to these barges as open/covered hopper barges[1].

Deck Barge: Non-self-propelled vessel, usually flat bottomed and rectangular in structure, having an intact deck for the carriage of bulk materials. Commonly referred to as a scow, lighter or hoy.

Lash/Seabee Barge: A barge, usually flat-bottomed and rectangular in structure to be lightered aboard a mother ship.

Tank Barge: Non-self-propelled vessel constructed and arranged for the carriage of liquid cargoes in tanks integral to the hull or independent of the hull. Pumping arrangements may be provided on board or left to shore equipment. Typical cargoes would include petroleum and other liquids.

Single Hull Tank Barge: A tank barge with the sides and the bottom being single hull.

Double Hull Tank Barge: A tank barge with the sides and the bottom being double hull.

Double Sided Tank Barge: A tank barge with the sides being double hull and the bottom being single hull.

Double Bottom Tank Barge: A tank barge with the sides being single hull and the bottom being double hull.

1. Most companies responding to the Transportation Annual Survey do not classify vessels according to the textbook definition of a hopper barge, which describes a barge designed for the carriage of dredged material or other waste material in hoppers for subsequent discharge elsewhere through the bottom of the barge by means of doors/valves or by means of a split hull separation.

Volume 1

National Summaries

TABLE 1: SUMMARY OF THE UNITED STATES FLAG PASSENGER AND CARGO VESSELS OPERATING OR AVAILABLE FOR OPERATION ON DECEMBER 31, 1999* BY REGION

Type of Vessels	Total 1999	Atlantic, Gulf and Pacific Coasts	Mississippi River System and the Gulf Intracoastal Waterway	Great Lakes System
Self-Propelled				
Dry Cargo and/or Passenger, Offshore Support				
Number of Vessels	2,910	1,314	1,376	220
Horsepower	8,034,893	5,137,459	2,339,991	557,443
Cargo Capacity (short tons)	6,928,684	4,531,699	492,660	1,904,325
Number of Passengers (capacity)	285,104	155,634	94,149	35,321
Vehicular Ferries and Railroad Cars				
Number of Vessels	229	200	11	18
Horsepower	516,441	480,781	17,060	18,600
Number of Passengers (capacity)	127,324	120,334	3,718	3,272
Tankers				
Number of Vessels	142	135	3	4
Horsepower	1,777,408	1,757,908	10,700	8,800
Cargo Capacity (short tons)	6,963,890	6,923,746	20,210	19,934
Towboats				
Number of Vessels	5,098	1,721	3,225	152
Horsepower	9,371,824	3,611,755	5,560,221	199,848
Total Self-Propelled				
Number of Vessels	8,379	3,370	4,615	394
Horsepower	19,700,566	10,987,903	7,927,972	784,691
Cargo Capacity (short tons)	13,892,574	11,455,445	512,870	1,924,259
Number of Passengers (capacity)	412,428	275,968	97,867	38,593
Non-Self-Propelled				
Barges, Dry Cargo				
Number of Vessels	29,383	3,095	26,031	257
Cargo Capacity (short tons)	45,049,209	5,454,471	39,107,259	487,479
Number of Passengers (capacity)	1,324	20	1,249	55
Barges, Tanker				
Number of Vessels	3,973	629	3,324	20
Cargo Capacity (short tons)	11,418,856	3,839,420	7,513,635	65,801
Railroad Car Floats				
Number of Vessels	31	28	0	3
Cargo Capacity (short tons)	98,075	98,075	0	0
Total Non-Self-Propelled				
Number of Vessels	33,387	3,752	29,355	280
Cargo Capacity (short tons)	56,566,140	9,391,966	46,620,894	553,280
Number of Passengers (capacity)	1,324	20	1,249	55
Grand Total Self and Non-Self-Propelled				
Number of Vessels	41,766	7,122	33,970	674
Horsepower	19,700,566	10,987,903	7,927,972	784,691
Cargo Capacity (short tons)	70,458,714	20,847,411	47,133,764	2,477,539
Number of Passengers (capacity)	413,752	275,988	99,116	38,648

Exclusive of fishing and excursion vessels, general ferries and dredges, derricks, etc., used in construction work.

* Includes updates through the publication date of December 2000.

FIGURE 1-1: SUMMARY OF THE UNITED STATES VESSEL INVENTORY
BY REGION FOR 1999

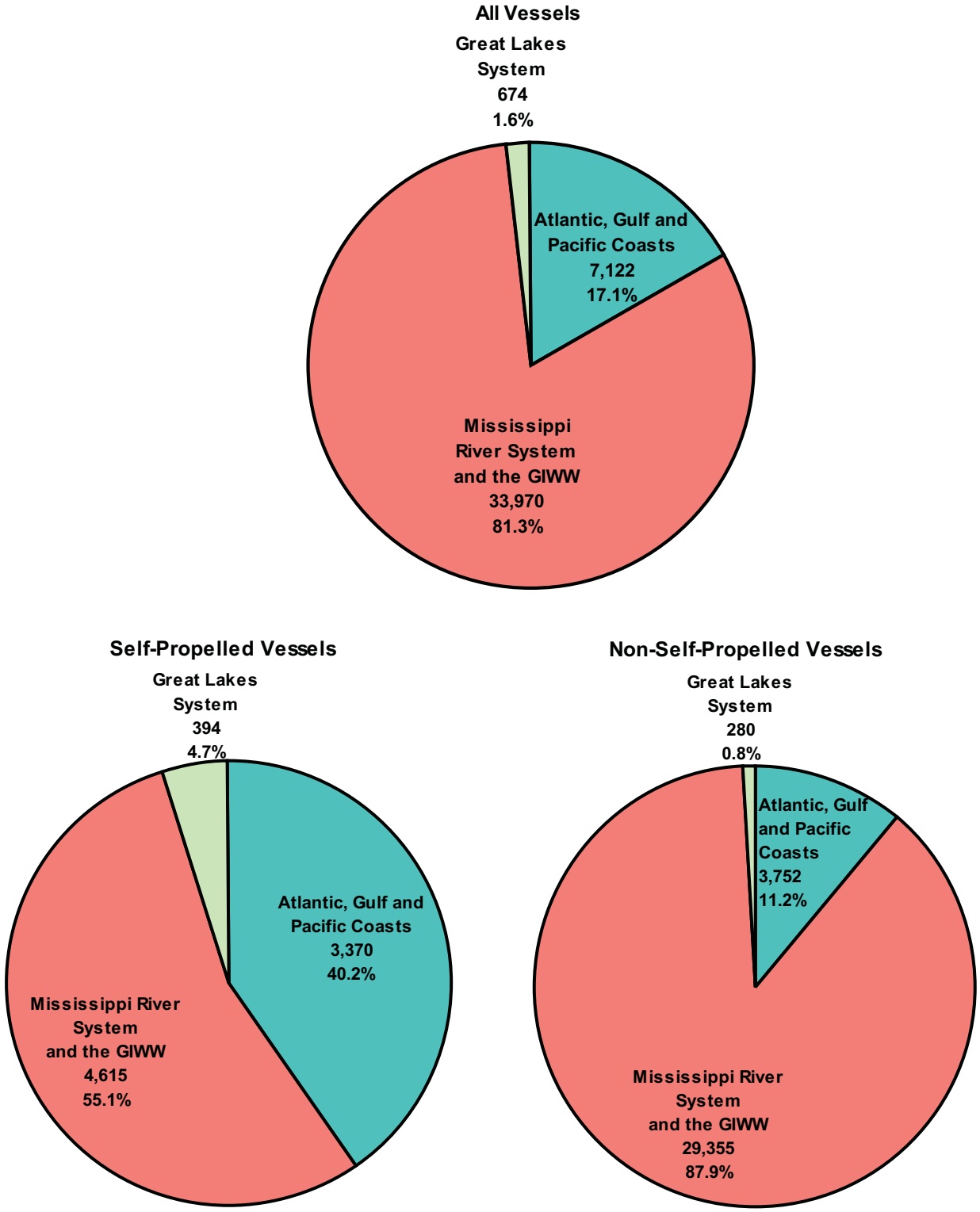


FIGURE 1-2: SUMMARY OF THE UNITED STATES VESSEL INVENTORY BY TYPE OF VESSEL FOR 1999

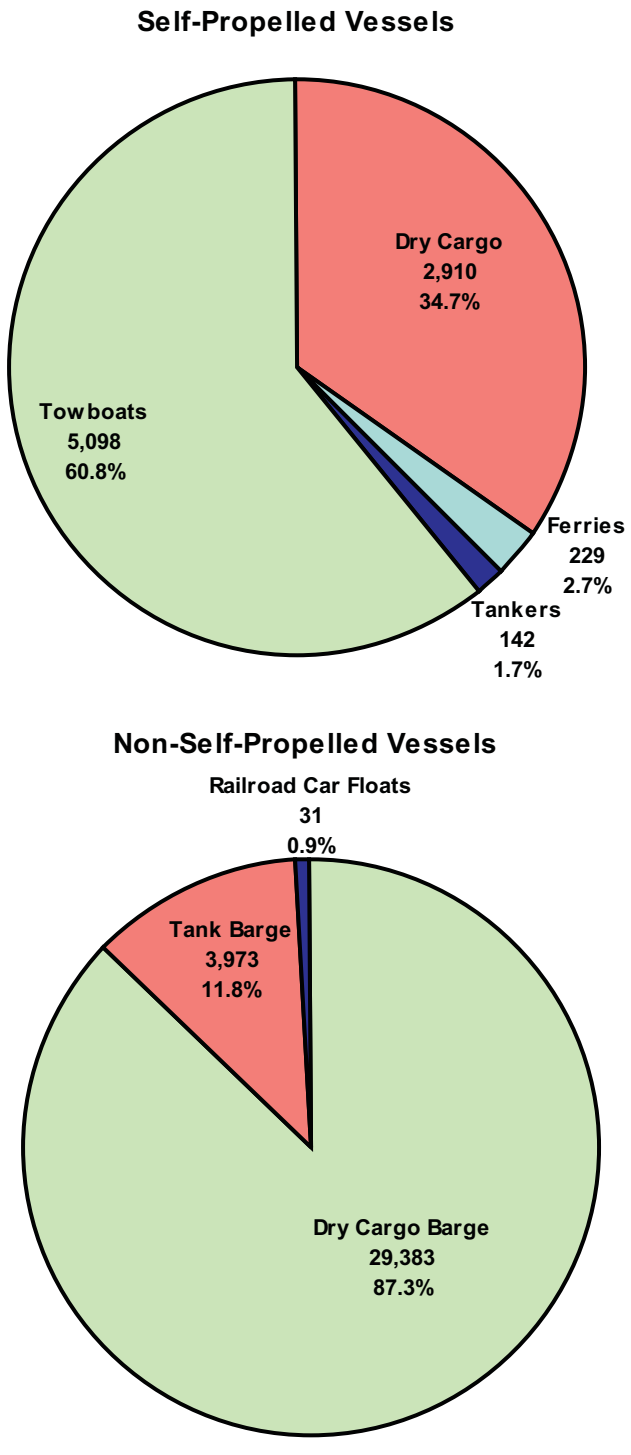


TABLE 2: SUMMARY OF THE UNITED STATES FLAG PASSENGER AND CARGO VESSELS[1] OPERATING OR AVAILABLE FOR OPERATION BY YEAR[2]

Type of Vessels	1980	1985	1990	1995	1998	1999
Self-Propelled						
Dry Cargo and/or Passenger, Offshore Support						
Number of Vessels	2,036	2,236	2,678	2,804	2,938	2,910
Horsepower	8,589,911	7,191,450	7,630,222	7,363,831	7,791,448	8,034,893
Cargo Capacity (short tons)	8,011,587	6,601,757	7,147,054	6,484,707	6,371,425	6,928,684
Number of Passengers (capacity)	143,255	153,347	215,204	275,353	299,064	285,104
Vehicular Ferries and Railroad Cars						
Number of Vessels	67	100	135	172	213	229
Horsepower	146,095	276,582	303,350	369,282	439,952	516,441
Number of Passengers (capacity)	NA	NA	82,100	100,309	120,906	127,324
Tankers						
Number of Vessels	330	232	213	178	135	142
Horsepower	4,161,044	3,281,912	2,820,207	2,219,297	1,626,964	1,777,408
Cargo Capacity (short tons)	15,894,753	14,591,672	12,681,957	9,298,692	6,598,742	6,963,890
Towboats						
Number of Vessels	4,693	4,954	5,210	5,127	5,237	5,098
Horsepower	7,146,576	8,030,407	8,709,914	9,107,738	9,432,131	9,371,824
Total Self-Propelled						
Number of Vessels	7,126	7,522	8,236	8,281	8,523	8,379
Horsepower	20,043,626	18,780,351	19,463,693	19,060,148	19,290,495	19,700,566
Cargo Capacity (short tons)	23,906,340	21,193,429	19,829,011	15,783,399	12,970,167	13,892,574
Number of Passengers (capacity)	143,255	153,347	297,304	375,662	419,970	412,428
Non-Self-Propelled						
Barges, Dry Cargo						
Number of Vessels	27,426	29,287	27,170	27,342	29,526	29,383
Cargo Capacity (short tons)	34,486,851	38,633,297	38,189,490	39,971,443	44,718,691	45,049,209
Number of Passengers (capacity)	0	0	3,149	1,101	3,234	1,324
Barges, Tanker						
Number of Vessels	4,166	4,252	4,003	3,985	3,952	3,973
Cargo Capacity (short tons)	10,388,265	10,842,430	10,757,295	11,169,087	11,281,261	11,418,856
Railroad Car Floats						
Number of Vessels	70	58	36	33	31	31
Cargo Capacity (short tons)	NA	NA	119,235	113,729	55,021	98,075
Total Non-Self-Propelled						
Number of Vessels	31,662	33,597	31,209	31,360	33,509	33,387
Cargo Capacity (short tons)	44,875,116	49,475,727	49,066,020	51,254,259	56,054,973	56,566,140
Number of Passengers (capacity)	NA	NA	3,149	1,101	3,234	1,324
Grand Total Self and Non-Self-Propelled						
Number of Vessels	38,788	41,119	39,445	39,641	42,032	41,766
Horsepower	20,043,626	18,780,351	19,463,693	19,060,148	19,290,495	19,700,566
Cargo Capacity (short tons)	68,781,456	70,669,156	68,895,031	67,037,658	69,025,140	70,458,714
Number of Passengers (capacity)	143,255	153,347	300,453	376,763	423,204	413,752

1 Exclusive of fishing and excursion vessels, general ferries and dredges, derricks, etc., used in construction work.
2 Data not available (NA).

FIGURE 2: SUMMARY OF THE UNITED STATES VESSEL INVENTORY
BY YEAR

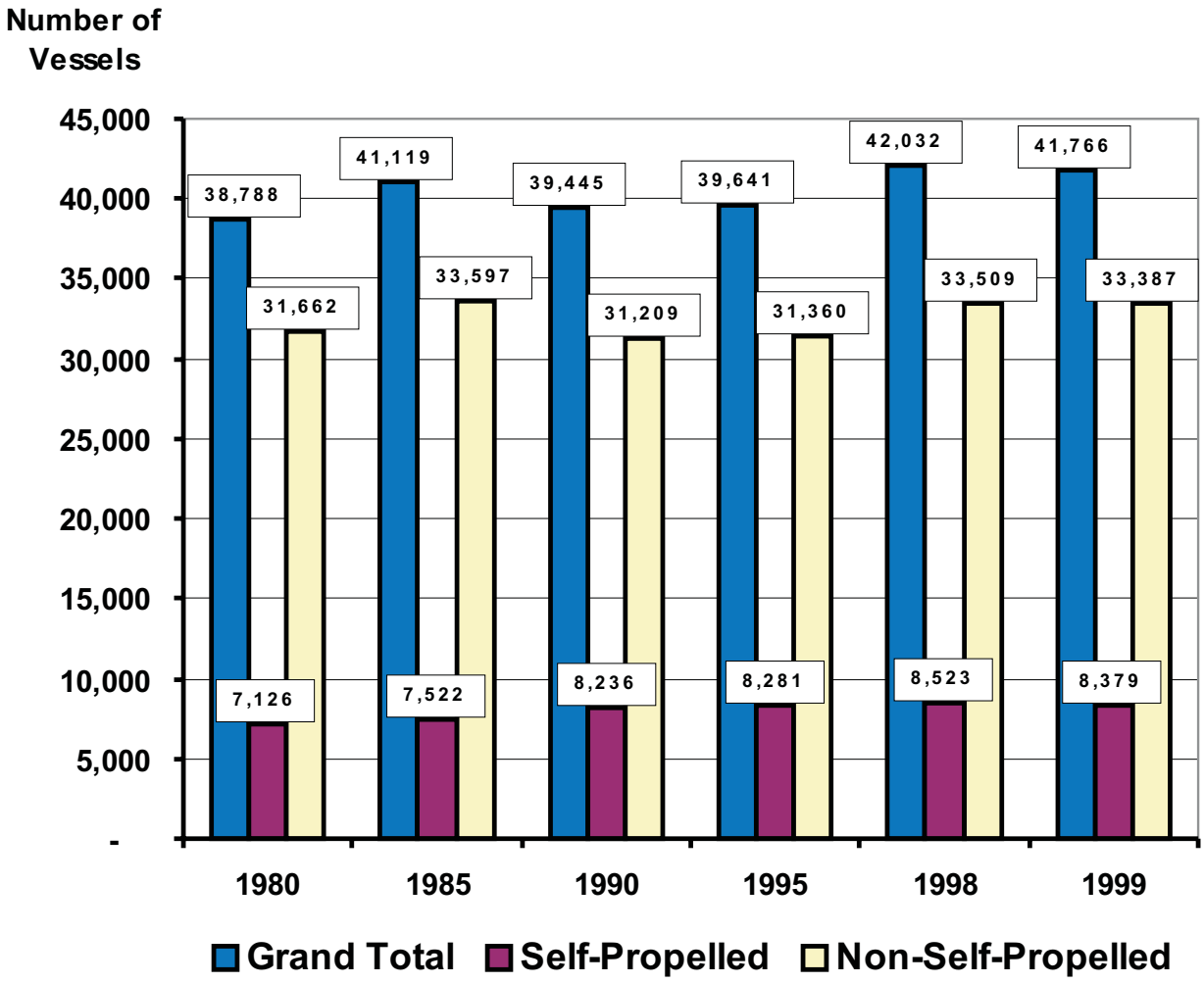


TABLE 3: SUMMARY OF THE UNITED STATES FLEET CONSTRUCTION[1]
BY VESSEL TYPE FOR YEARS 1990 - 1999

Vessel Type	Total New Construction									
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Vessels (total)[2]	**841**	**639**	**771**	**705**	**511**	**668**	**1,451**	**1,713**	**1,173**	**1,300**
Self-Propelled (total)	**66**	**58**	**50**	**46**	**52**	**71**	**81**	**83**	**124**	**144**
Dry Cargo (total)	11	2	5	9	6	6	4	8	13	3
Dry Bulk	0	0	0	0	0	0	0	0	0	0
Containership	0	0	1	0	0	0	0	0	0	0
General Cargo	10	2	3	5	2	3	2	5	5	1
Specialized	1	0	1	4	4	3	2	3	8	2
Passenger	20	15	12	13	20	18	22	15	20	23
Offshore Support	20	22	11	9	11	11	12	28	47	56
Tanker	0	1	3	0	1	0	1	4	3	2
Towboat	15	16	19	15	14	36	42	28	38	56
Non-Self-Propelled (total)	**775**	**581**	**721**	**659**	**459**	**597**	**1,370**	**1,630**	**1,049**	**1,156**
Dry Barge (total)	724	492	637	615	405	506	1,235	1,565	977	1,061
Dry Covered	204	97	184	232	218	345	397	1,031	516	678
Dry Open	202	274	243	213	114	100	682	367	375	232
Lash/Seabee	21	32	2	0	0	0	0	0	0	0
Deck	268	85	207	169	67	60	156	166	82	151
Other Dry[3]	29	4	1	1	6	1	0	1	4	0
Tank Barge[4] (total)	51	89	84	44	54	91	135	65	72	95
Single Hull	NA	NA	NA	NA	2	0	11	1	5	1
Double Hull	NA	NA	NA	NA	37	57	96	59	61	54
Other Tank[5]	NA	NA	NA	NA	15	34	28	5	6	40

Vessel Type	Total Vessels Rebuilt									
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Vessels (total)[2]	**18**	**8**	**3**	**5**	**9**	**7**	**12**	**4**	**15**	**15**
Self-Propelled (total)	**13**	**5**	**1**	**4**	**7**	**6**	**6**	**4**	**11**	**9**
Dry Cargo (total)	1	1	0	1	0	0	1	0	1	3
Dry Bulk	0	0	0	0	0	0	0	0	0	0
Containership	0	0	0	0	0	0	0	0	0	1
General Cargo	1	1	0	1	0	0	0	0	0	2
Specialized	0	0	0	0	0	0	1	0	1	0
Passenger	5	0	0	0	2	0	0	0	0	0
Offshore Support	0	0	0	0	1	4	3	2	0	0
Tanker	1	0	0	0	0	0	0	0	0	0
Towboat	6	4	1	3	4	2	2	2	10	6
Non-Self-Propelled (total)	**5**	**3**	**2**	**1**	**2**	**1**	**6**	**0**	**4**	**6**
Dry Barge (total)	3	3	1	1	2	1	5	0	4	6
Dry Covered	0	0	0	0	1	0	1	0	2	1
Dry Open	2	1	0	0	0	0	0	0	0	0
Lash/Seabee	0	0	0	0	0	0	0	0	0	0
Deck	1	0	0	1	1	1	3	0	2	5
Other Dry[3]	0	2	1	0	0	0	1	0	0	0
Tank Barge[4] (total)	2	0	1	0	0	0	1	0	0	0
Single Hull	NA	NA	NA	NA	0	0	0	0	0	0
Double Hull	NA	NA	NA	NA	0	0	1	0	0	0
Other Tank[5]	NA	NA	NA	NA	0	0	0	0	0	0

1 The calendar year the vessel was built (new construction) or rebuilt. The rebuilt status is a vessel modification or significant improvement that extends the working life of the vessel, which is determined by the vessel company surveyed.
2 Total is greater than sum because of 4 unclassified vessels; includes vessels available for operation.
3 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.
4 Single versus double hull classifications were not reported prior to 1994.
5 Includes tank barges that may be double sided only, double bottom only, or not elsewhere included.

FIGURE 3: SUMMARY OF THE UNITED STATES YEAR OF FLEET CONSTRUCTION[1] BY VESSEL TYPE FOR 1990 - 1999

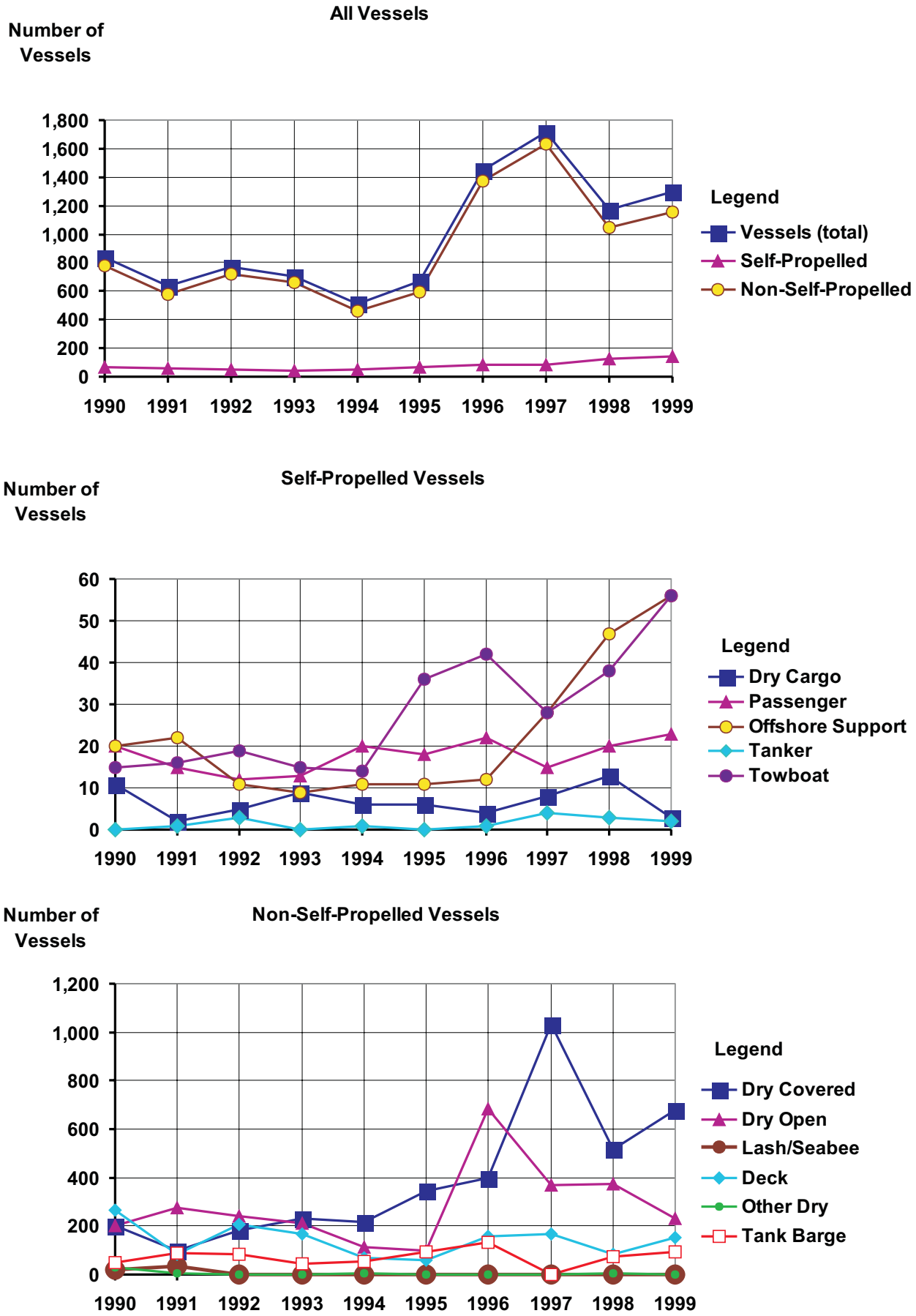
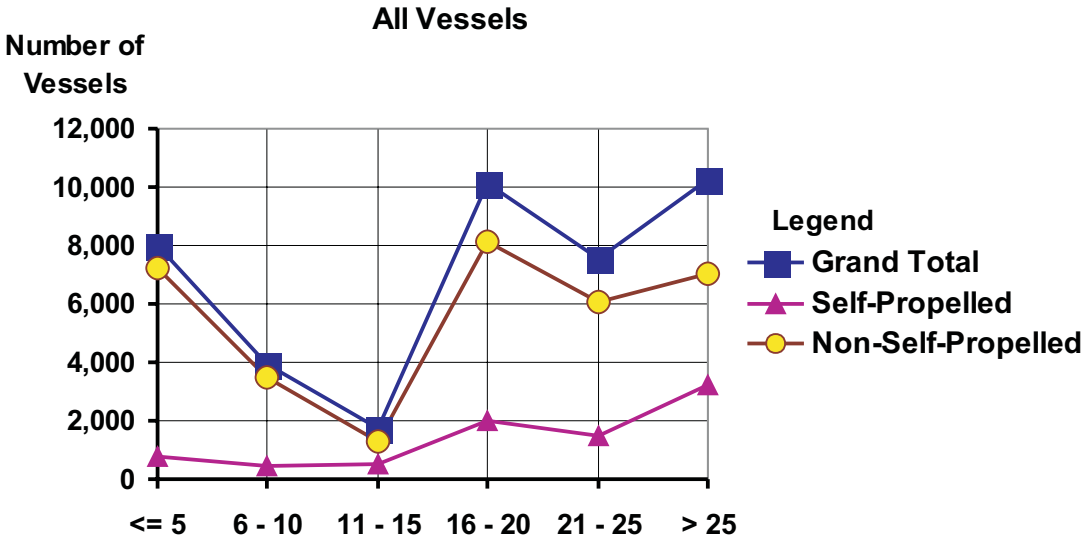


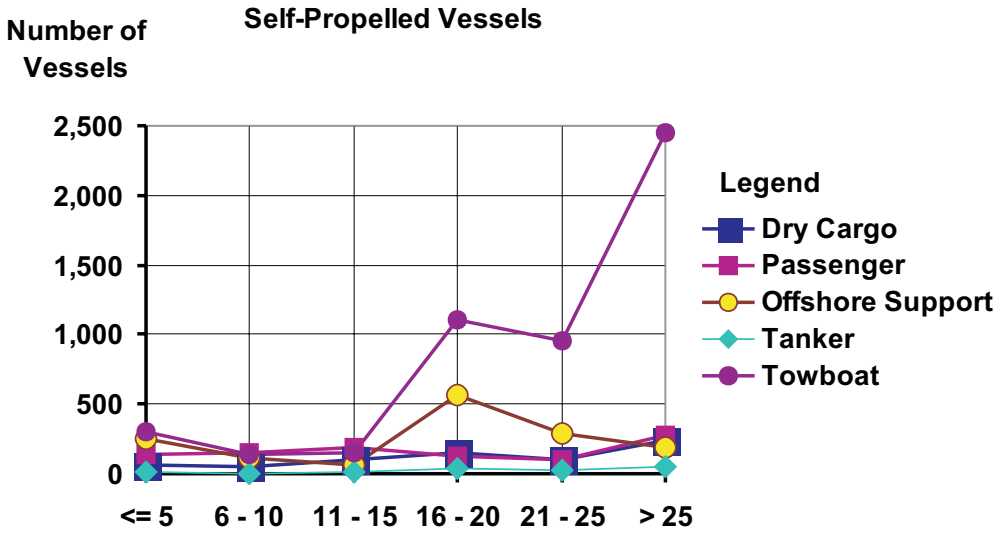
TABLE 4: SUMMARY OF THE UNITED STATES FLAG VESSELS
BY VESSEL TYPE AND AGE FOR 1999[1]

Vessel Type	Number	Age[2]					
		< = 5	6 - 10	11 - 15	16 - 20	21 - 25	> 25
Vessels (total)[3]	41,766	7,968	3,943	1,769	10,129	7,522	10,267
Self-Propelled (total)	8,379	763	453	499	1,973	1,460	3,216
Dry Cargo (total)	695	60	49	97	146	99	243
Dry Bulk	68	0	1	6	16	16	29
Containership	74	4	6	23	20	6	15
General Cargo	320	23	14	33	82	52	115
Specialized	233	33	28	35	28	25	84
Passenger	970	144	146	183	120	95	282
Offshore Support	1,470	245	114	61	571	283	191
Tanker	142	12	3	12	35	30	50
Towboat	5,098	302	140	146	1,101	953	2,447
Unknown	4	0	1	0	0	0	3
Non-Self-Propelled (total)	33,387	7,205	3,490	1,270	8,156	6,062	7,051
Dry Barge (total)	29,414	6,640	3,192	1,231	7,414	5,302	5,491
Dry Covered	13,477	3,692	900	109	4,537	2,592	1,640
Dry Open	9,146	2,068	1,600	696	2,028	1,370	1,383
Lash/Seabee	1,796	0	288	111	36	788	573
Deck	4,842	869	396	304	776	535	1,838
Other Dry[4]	153	11	8	11	37	17	57
Tank Barge (total)	3,973	565	298	39	742	760	1,560
Single Hull	685	24	13	13	132	78	424
Double Hull	2,621	434	273	20	497	567	830
Other Tank[5]	667	107	12	6	113	115	306

1 Survey date as of December 31, 1999; includes updates through publication date of December 2000.
2 Age (in years) is based upon the year the vessel was built or rebuilt, using calendar year 1999 as the base year.
3 Total is greater than sum because of 4 unclassified vessels and 168 with unknown age; figures include vessels available for operation.
4 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.
5 Includes tank barges that may be double sided only, double bottom only, or not elsewhere included.

FIGURE 4: SUMMARY OF THE UNITED STATES FLAG VESSELS
BY VESSEL TYPE AND AGE FOR 1999





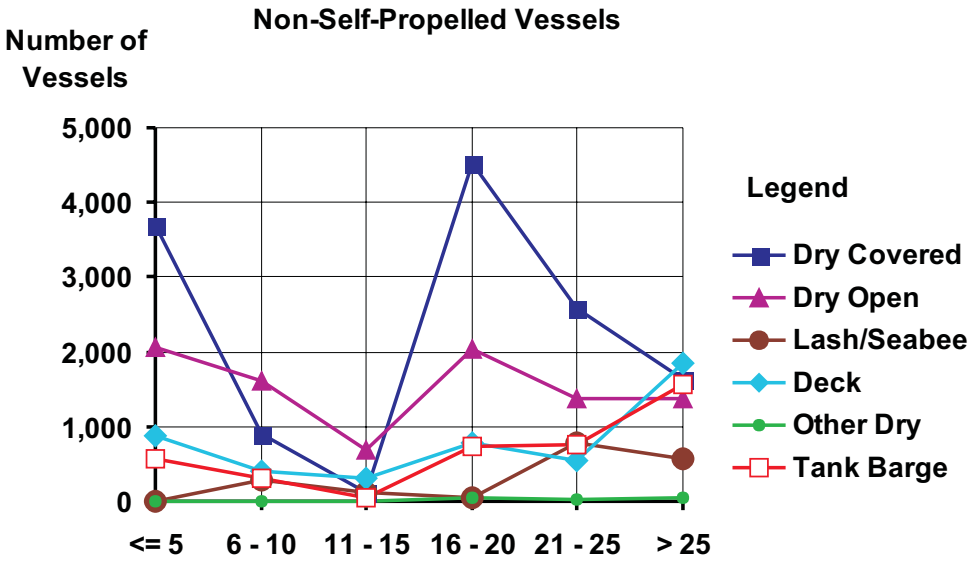


FIGURE 5: SUMMARY OF THE UNITED STATES TOWBOAT FLEET
BY HORSEPOWER FOR 1999

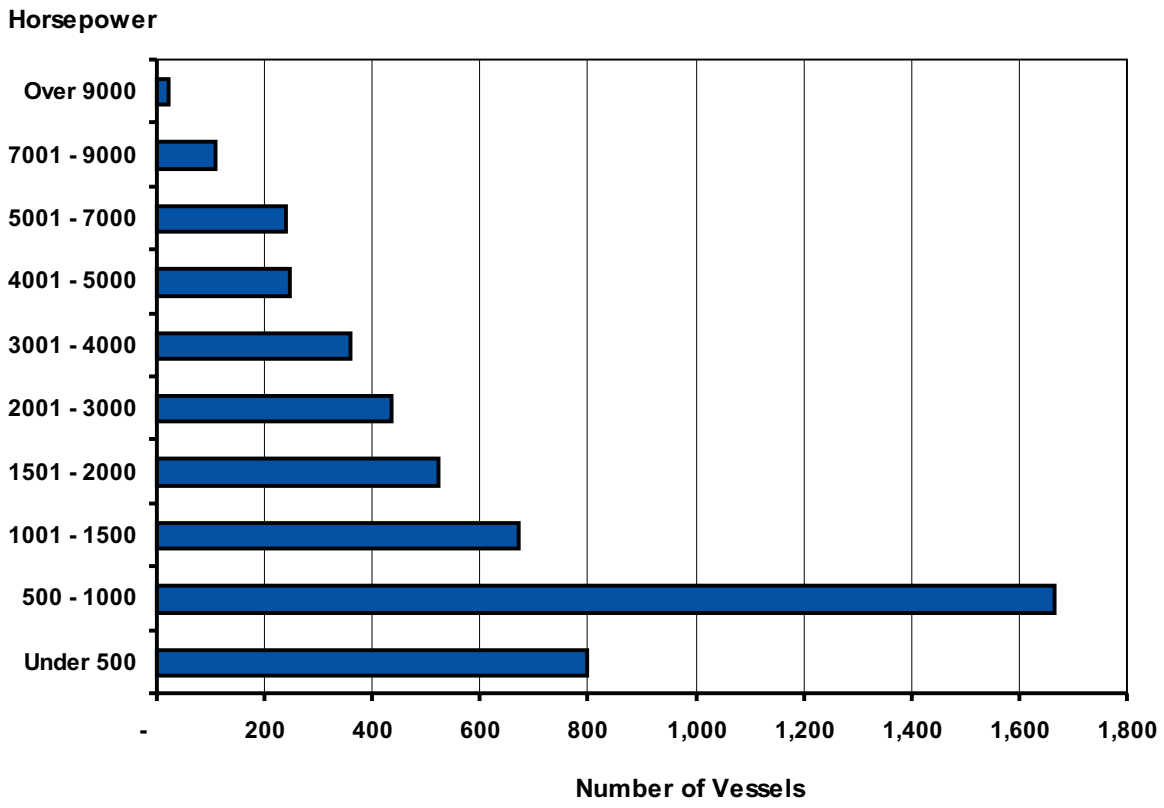


TABLE 5: SUMMARY OF THE UNITED STATES TOWBOAT FLEET
BY HORSEPOWER FOR 1999

Vessel Type/ Horsepower Class	Vessels Number[2]	% Total	Horsepower[1] Total	% Total	Average[3]	Average Age[4]
Under 500	799	15.8	254,218	2.7	318	36
500 - 1,000	1,667	32.9	1,301,799	13.9	781	28
1,001 - 1,500	670	13.2	835,480	8.9	1,247	30
1,501 - 2,000	523	10.3	933,364	10.0	1,785	31
2,001 - 3,000	437	8.6	1,123,097	12.0	2,570	28
3,001 - 4,000	360	7.1	1,283,765	13.7	3,566	27
4,001 - 5,000	247	4.9	1,092,119	11.7	4,422	25
5,001 - 7,000	239	4.7	1,435,150	15.3	6,005	21
7,001 - 9,000	108	2.1	880,380	9.4	8,152	22
Over 9,000	21	0.4	232,452	2.5	11,069	18
Total Towboat Fleet	**5,098**	**100.0**	**9,371,824**	**100.0**	**1,848**	**29**

1 Horsepower rating is reported when the vessel was new or when the present engine was installed.
2 Total is greater than sum because of 27 vessels with unknown horsepower.
3 Average is calculated from only those vessels with known horsepower and not the total number of vessels.
4 Age is based upon the year the vessel was built or rebuilt.

FIGURE 6: SUMMARY OF THE UNITED STATES TANK BARGE FLEET
BY BARGE TYPE AND SIZE FOR 1999

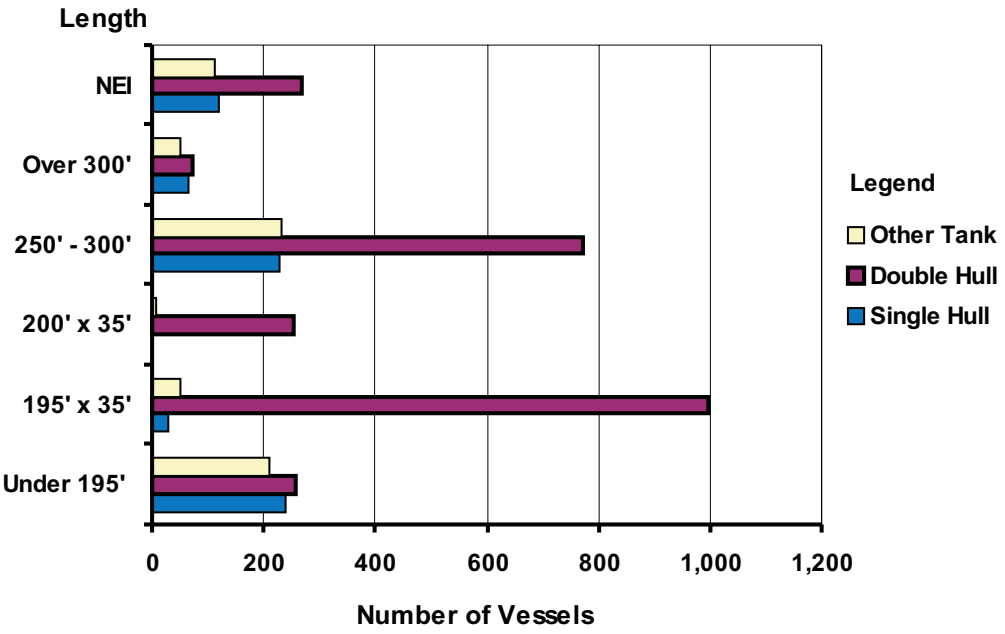


TABLE 6: SUMMARY OF THE UNITED STATES TANK BARGE FLEET
BY BARGE TYPE AND SIZE FOR 1999

Barge Size[1]	Total Barges		Cargo Capacity[2]			Average
	Number	% Total	Total	% Total	Average	Age[3]
Barge Type: Single Hull						
Under 195'	241	35.2	270,501	10.9	1,122	33
195' x 35'	30	4.4	43,114	1.7	1,437	35
200' x 35'	3	0.4	4,609	0.2	1,536	31
250' - 300'	228	33.3	889,427	35.8	3,901	26
Over 300'	64	9.3	964,136	38.8	15,065	22
NEI	119	17.4	313,990	12.6	2,639	33
Total Single Hull	**685**	**(17.2)**	**2,485,777**	**(21.8)**	**3,629**	**29**
Barge Type: Double Hull						
Under 195'	257	9.8	433,216	6.3	1,692	24
195' x 35'	998	38.1	1,629,460	23.8	1,633	22
200' x 35'	252	9.6	410,648	6.0	1,630	14
250' - 300'	774	29.5	2,,831,233	41.4	3,658	16
Over 300'	72	2.7	946,041	13.8	13,139	15
NEI	268	10.2	591,609	8.6	2,232	26
Total Double Hull	**2,621**	**(66.0)**	**6,842,207**	**(59.9)**	**2,615**	**20**
Barge Type: Other Tank						
Under 195'	212	31.8	222,005	10.6	1,047	28
195' x 35'	49	7.3	70,782	3.4	1,445	21
200' x 35'	9	1.3	13,501	0.6	1,500	7
250' - 300'	231	34.6	844,491	40.4	3,720	24
Over 300'	52	7.8	676,222	32.3	13,004	22
NEI	114	17.1	263,871	12.6	2,356	25
Total Other Tank	**667**	**(16.8)**	**2,090,872**	**(18.3)**	**3,163**	**25**
Total Tank Barge Fleet	**3,973**	**100.0**	**11,418,856**	**100.0**	**2,881**	**22**

1 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.
2 Capacity specifies the full load capacity in short tons (2,000 lb). Average is calculated from only those vessels with known capacity and not the total number of vessels.
3 Age is based upon the year the vessel was built or rebuilt. Average is calculated from only those vessels with a known age and not the total number of vessels.
4 Includes tank barges that are double sided only, double bottom only, or not elsewhere included.

FIGURE 7: SUMMARY OF THE UNITED STATES SHALLOW DRAFT[1] TANK BARGE FLEET BY BARGE TYPE AND SIZE FOR 1999

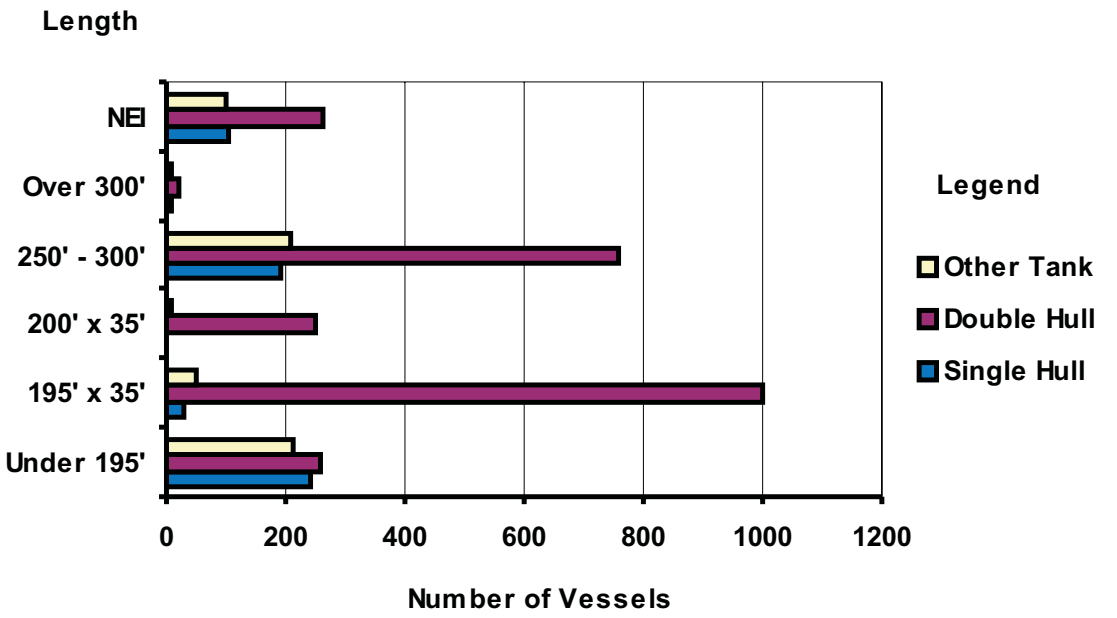


TABLE 7: SUMMARY OF THE UNITED STATES SHALLOW DRAFT[1] TANK BARGE FLEET BY BARGE TYPE AND SIZE FOR 1999

Barge Size[2]	Total Barges		Cargo Capacity[3]			Average
	Number	% Total	Total	% Total	Average	Age[4]
Barge Type: Single Hull						
Under 195'	241	41.7	270,501	21.4	1,122	33
195' x 35'	30	5.2	43,114	3.4	1,437	35
200' x 35'	3	0.5	4,609	0.4	1,536	31
250' - 300'	193	33.4	652,615	51.7	3,381	26
Over 300'	7	1.2	29,888	2.4	4,270	23
NEI	104	18.0	261,744	20.7	2,517	34
Total Single Hull	**578**	**(15.6)**	**1,262,471**	**(15.1)**	**2,184**	**31**
Barge Type: Double Hull						
Under 195'	257	10.1	433,216	7.4	1,692	24
195' x 35'	998	39.1	1,629,460	27.7	1,633	22
200' x 35'	252	9.9	410,648	7.0	1,630	14
250' - 300'	758	29.7	2,738,089	46.6	3,612	16
Over 300'	22	0.9	83,733	1.4	3,806	22
NEI	263	10.3	578,676	9.9	2,226	26
Total Double Hull	**2,550**	**(68.7)**	**5,873,822**	**(70.2)**	**2,307**	**20**
Barge Type: Other Tank[5]						
Under 195'	211	36.2	219,505	17.9	1,040	28
195' x 35'	49	8.4	70,782	5.8	1,445	21
200' x 35'	9	1.5	13,501	1.1	1,500	7
250' - 300'	207	35.5	692,897	56.4	3,413	23
Over 300'	7	1.2	20,755	1.7	2,965	23
NEI	100	17.2	210,980	17.2	2,153	26
Total Other Tank	**583**	**(15.7)**	**1,228,420**	**(14.7)**	**2,129**	**25**
Total Shallow Draft Tank Barge Fleet	**3,711**	**100.0**	**8,364,713**	**100.0**	**2,260**	**22**

1 Based on the loaded draft of the vessel; shallow draft is defined as less than or equal to 14 feet.
2 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.
3 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.
4 Age is based upon the year the vessel was built or rebuilt. Average is calculated from only those vessels with a known age and not the total number of vessels.
5 Includes tank barges that are double sided only, double bottom only, or not elsewhere included.

FIGURE 8: SUMMARY OF THE UNITED STATES DEEP DRAFT[1] TANK BARGE FLEET
BY BARGE TYPE AND SIZE FOR 1999

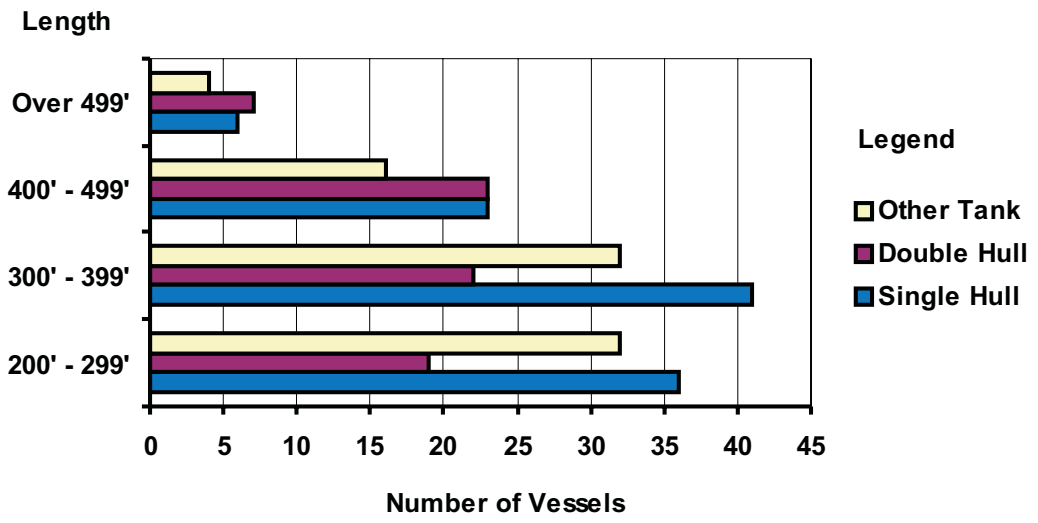


TABLE 8: SUMMARY OF THE UNITED STATES DEEP DRAFT[1] TANK BARGE FLEET
BY BARGE TYPE AND SIZE FOR 1999

Barge Size[2]	Total Barges		Cargo Capacity[3]			Average
	Number	% Total	Total	% Total	Average	Age[4]
Barge Type: Single Hull						
200' - 299'	36	33.6	182,346	14.9	5,065	26
300' - 399'	41	38.3	408,363	33.4	9,960	24
400' - 499'	23	21.5	475,826	38.9	20,688	20
Over 499'	6	5.6	153,569	12.6	25,595	23
NEI	1	0.9	3,200	0.3	3,200	37
Total Single Hull	**107**	**(40.8)**	**1,223,306**	**(40.1)**	**11,433**	**24**
Barge Type: Double Hull						
200' - 299'	19	26.8	94,073	9.7	4,951	27
300' - 399'	22	31.0	217,173	22.4	9,872	14
400' - 499'	23	32.4	389,851	40.3	16,950	10
Over 499'	7	9.9	267,288	27.6	38,184	15
Total Double Hull	**71**	**(27.1)**	**968,385**	**(31.7)**	**13,639**	**16**
Barge Type: Other Tank[5]						
Under 300'	32	38.1	146,730	17.0	4,585	26
300' - 399'	32	38.1	333,139	38.6	10,411	24
400' - 499'	16	19.0	244,487	28.3	15,280	19
Over 499'	4	4.8	138,096	16.0	34,524	23
Total Other Tank	**84**	**(32.1)**	**862,452**	**(28.2)**	**10,267**	**24**
Total Deep Draft Tank Barge Fleet	**262**	**100.0**	**3,054,143**	**100.0**	**11,657**	**22**

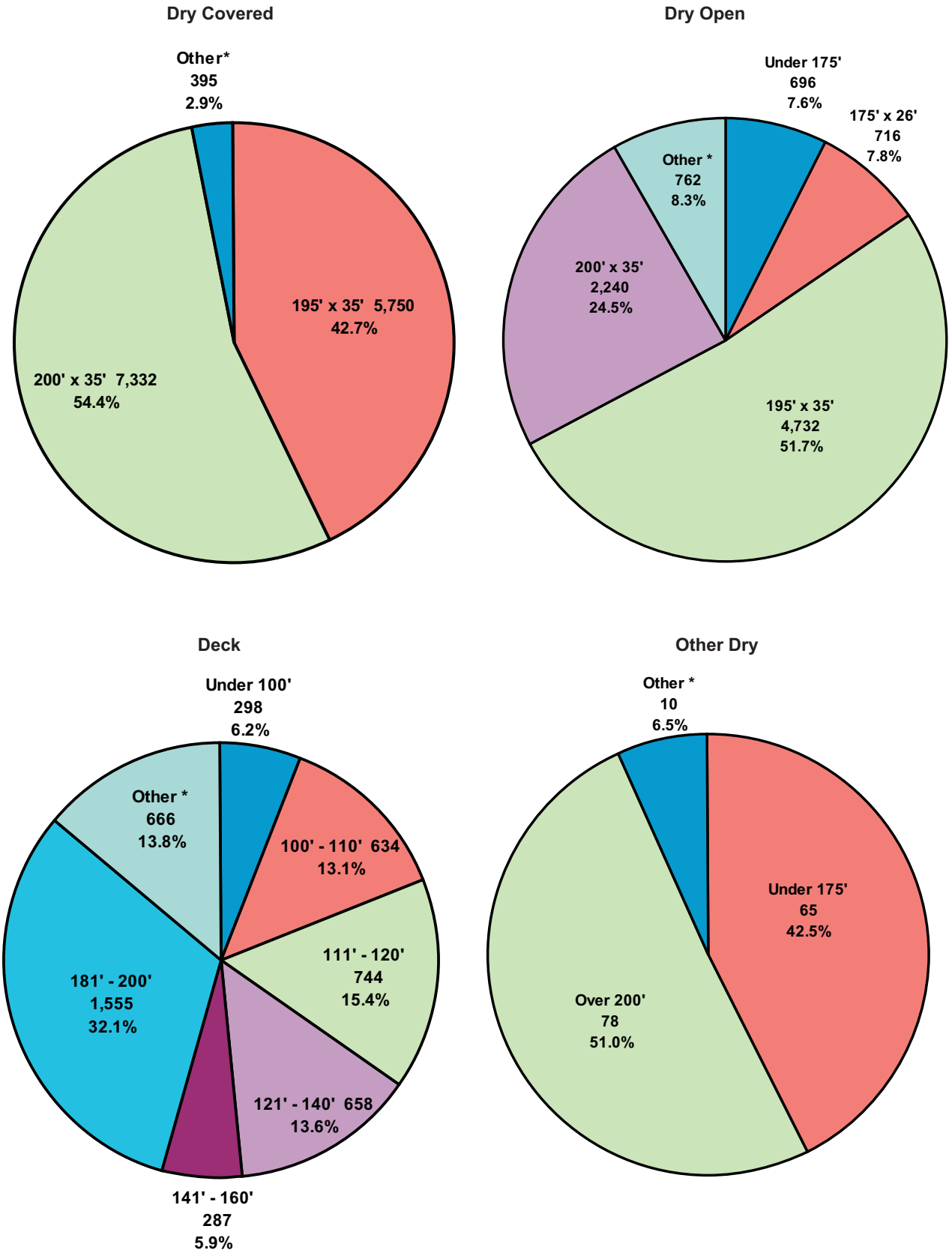
1 Based on the loaded draft of the vessel; deep draft is defined as greater than 14 feet.
2 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.
3 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.
4 Age is based upon the year the vessel was built or rebuilt. Average is calculated from only those vessels with a known age and not the total number of vessels.
5 Includes tank barges that are double sided only, double bottom only, or not elsewhere included.

TABLE 9: SUMMARY OF THE UNITED STATES DRY CARGO BARGE FLEET
BY BARGE TYPE AND SIZE FOR 1999

Barge Size[1]	Total Barges		Cargo Capacity[2]			Average
	Number	% Total	Total	% Total	Average	Age[3]
Barge Type: Dry Covered						
Under 175'	55	0.4	31,292	0.1	569	32
175' x 26'	4	0.0	3,685	0.0	921	48
195' x 26'	3	0.0	3,870	0.0	1,290	34
195' x 35'	5,750	42.7	8,916,814	38.1	1,551	19
200' x 35'	7,332	54.4	12,694,236	54.3	1,731	12
Over 200'	277	2.1	1,649,456	7.1	5,955	16
NEI	56	0.4	93,032	0.4	1,661	9
Total Dry Covered	**13,477**	**(45.8)**	**23,392,385**	**(51.8)**	**1,736**	**15**
Barge Type: Dry Open						
Under 175'	696	7.6	698,086	5.0	1,003	33
175' x 26'	716	7.8	674,335	4.8	942	20
195' x 26'	485	5.3	534,552	3.8	1,102	18
195' x 35'	4,732	51.7	7,351,865	52.5	1,554	15
200' x 35'	2,240	24.5	3,888,437	27.8	1,748	9
Over 200'	209	2.3	732,583	5.2	3,505	19
NEI	68	0.7	124,072	0.9	1,825	27
Total Dry Open	**9,146**	**(31.1)**	**14,003,930**	**(31.0)**	**1,534**	**16**
Barge Type: Deck						
Under 100'	298	6.2	67,564	1.0	233	34
100' - 110'	634	13.1	299,636	4.7	482	31
111' - 120'	744	15.4	382,846	5.9	524	21
121' - 140'	658	13.6	518,026	8.0	799	29
141' - 160'	287	5.9	301,197	4.7	1,057	29
161' - 180'	257	5.3	405,341	6.3	1,608	29
181' - 200'	1,555	32.1	2,535,314	39.4	1,639	14
201' - 220'	49	1.0	124,085	1.9	2,532	25
221' - 240'	83	1.7	266,219	4.1	3,207	27
241' - 260'	121	2.5	496,003	7.7	4,133	19
Over 260'	153	3.2	1,032,722	16.0	6,839	22
NEI	3	0.1	5,404	0.1	1,801	22
Total Deck	**4,842**	**(16.5)**	**6,435,357**	**(14.3)**	**1,346**	**23**
Barge Type: Lash / Seabee						
Lash 62' x 31'	1,789	99.6	729,995	97.6	408	22
Seabee 98' x 35'	5	0.3	16,312	2.2	3,262	26
NEI	2	0.1	2,000	0.3	1,000	39
Total Lash Seabee	**1,796**	**(6.1)**	**748,307**	**(1.7)**	**417**	**22**
Barge Type: Other Dry[4]						
Under 175'	65	42.5	58,650	10.3	946	26
175' x 26'	0	-	0	-	-	-
195' x 26'	0	-	0	-	-	-
195' x 35'	6	3.9	9,340	1.6	1,557	25
200' x 35'	0	-	0	-	-	-
Over 200'	78	51.0	489,888	86.3	6,281	23
NEI	4	2.6	9,619	1.7	2,405	13
Total Other Dry	**153**	**(0.5)**	**567,497**	**(1.3)**	**3,783**	**25**
Total Dry Cargo	**29,414**	**100.0**	**45,147,476**	**100.0**	**1,539**	**17**

1 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.
2 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.
3 Age is based upon the year the vessel was built or rebuilt. Average is calculated from only those vessels with a known age and not the total number of vessels.
4 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

FIGURE 9: SUMMARY OF THE UNITED STATES DRY CARGO BARGE FLEET
BY BARGE TYPE AND SIZE FOR 1999



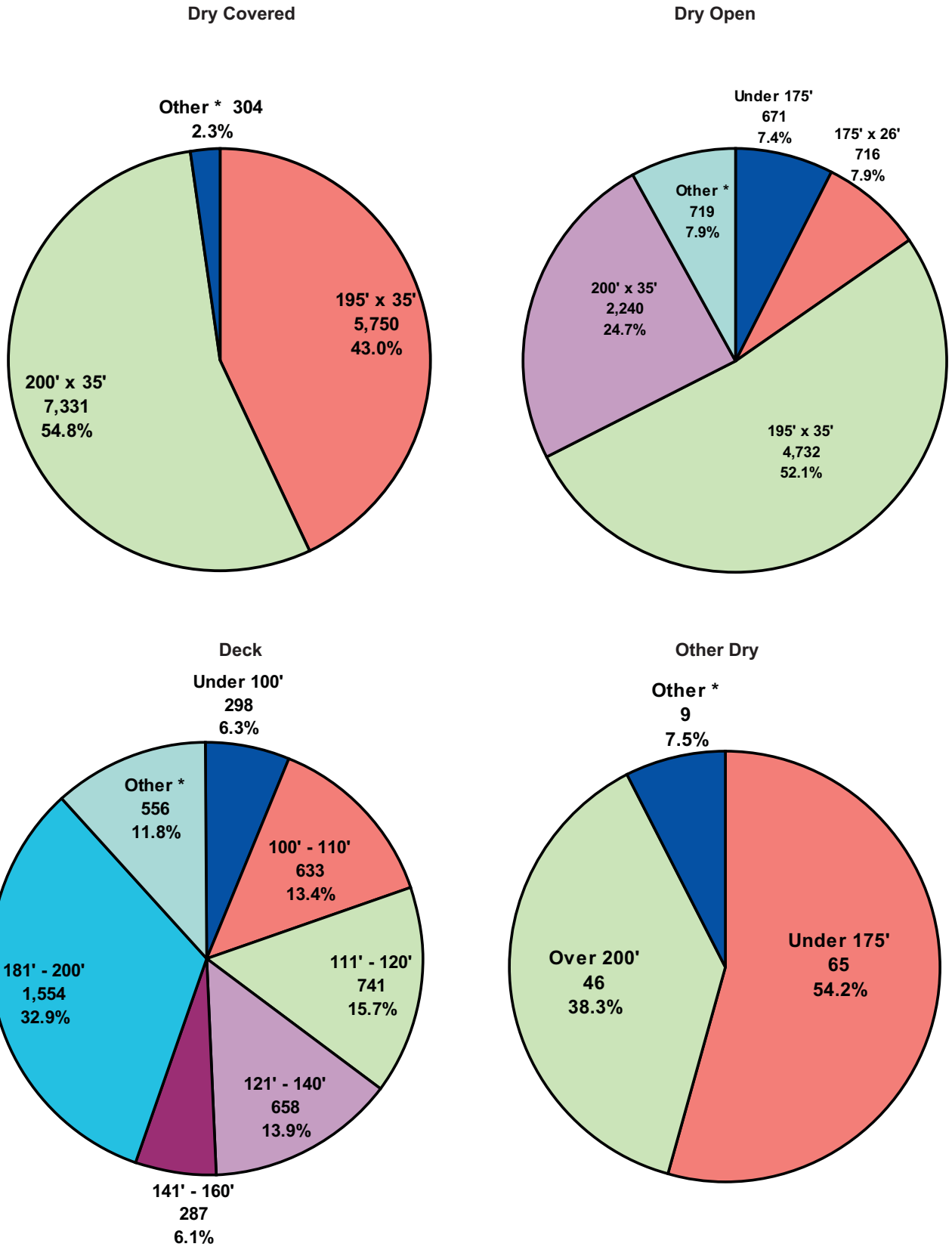
* Other size category represents the combined number of vessels for size groups with less than 5.5% of the total for the barge type.

TABLE 10: SUMMARY OF THE UNITED STATES SHALLOW DRAFT[1] DRY CARGO BARGE FLEET BY BARGE TYPE AND SIZE FOR 1999

Barge Size[2]	Total Barges		Cargo Capacity[3]			Average
	Number	% Total	Total	% Total	Average	Age[4]
Barge Type: Dry Covered						
Under 175'	55	0.4	31,292	0.1	569	32
175' x 26'	4	0.0	3,685	0.0	921	48
195' x 26'	3	0.0	3,870	0.0	1,290	34
195' x 35'	5,750	43.0	8,916,814	40.2	1,551	19
200' x 35'	7,331	54.8	12,691,936	57.3	1,731	12
Over 200'	186	1.4	420,179	1.9	2,259	13
NEI	56	0.4	93,032	0.4	1,661	9
Total Dry Covered	**13,385**	**(46.0)**	**22,160,808**	**(52.2)**	**1,656**	**15**
Barge Type: Dry Open						
Under 175'	671	7.4	639,411	4.7	953	33
175' x 26'	716	7.9	674,335	4.9	942	20
195' x 26'	485	5.3	534,552	3.9	1,102	18
195' x 35'	4,732	52.1	7,351,865	53.7	1,554	15
200' x 35'	2,240	24.7	3,888,437	28.4	1,748	9
Over 200'	174	1.9	496,374	3.6	2,853	18
NEI	60	0.7	104,390	0.8	1,740	26
Total Dry Open	**9,078**	**(31.2)**	**13,689,364**	**(32.2)**	**1,510**	**15**
Barge Type: Deck						
Under 100'	298	6.3	67,564	1.2	233	34
100' - 110'	633	13.4	299,636	5.4	482	31
111' - 120'	741	15.7	382,529	6.9	525	21
121' - 140'	658	13.9	518,026	9.3	799	29
141' - 160'	287	6.1	301,197	5.4	1,057	29
161' - 180'	254	5.4	399,624	7.2	1,598	29
181' - 200'	1,554	32.9	2,532,878	45.5	1,638	14
201' - 220'	46	1.0	115,605	2.1	2,513	24
221' - 240'	74	1.6	226,458	4.1	3,060	28
241' - 260'	95	2.0	376,033	6.8	3,958	20
Over 260'	85	1.8	345,265	6.2	4,160	24
NEI	2	0.0	4	0.0	2	23
Total Deck	**4,727**	**(16.2)**	**5,564,819**	**(13.1)**	**1,192**	**23**
Barge Type: Lash / Seabee						
Lash 62' x 31'	1,789	99.6	729,995	97.6	408	22
Seabee 98' x 35'	5	0.3	16,312	2.2	3,262	26
NEI	2	0.0	2000	0.3	1,000	39
Total Lash Seabee	**1,796**	**(6.2)**	**748,307**	**(1.8)**	**417**	**22**
Barge Type: Other Dry[5]						
Under 175'	65	54.2	58,650	20.0	946	26
175' x 26'	0	-	0	-	-	-
195' x 26'	0	-	0	-	-	-
195' x 35'	6	5.0	9,340	3.2	1,557	25
200' x 35'	0	-	0	-	-	-
Over 200'	46	38.3	219,978	75.1	4,782	25
NEI	3	2.5	4,978	1.7	1,659	13
Total Other Dry	**120**	**(0.4)**	**292,946**	**(0.7)**	**2,504**	**25**
Total Dry Cargo	**29,106**	**100.0**	**42,456,244**	**100.0**	**1,462**	**17**

1 Based on the loaded draft of the vessel; shallow draft is defined as less than or equal to 14 feet.
2 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.
3 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.
4 Age is based upon the year the vessel was built or rebuilt. Average is calculated from only those vessels with a known age and not the total number of vessels.
5 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

FIGURE 10: SUMMARY OF THE UNITED STATES SHALLOW DRAFT DRY CARGO BARGE FLEET BY BARGE TYPE AND SIZE FOR 1999



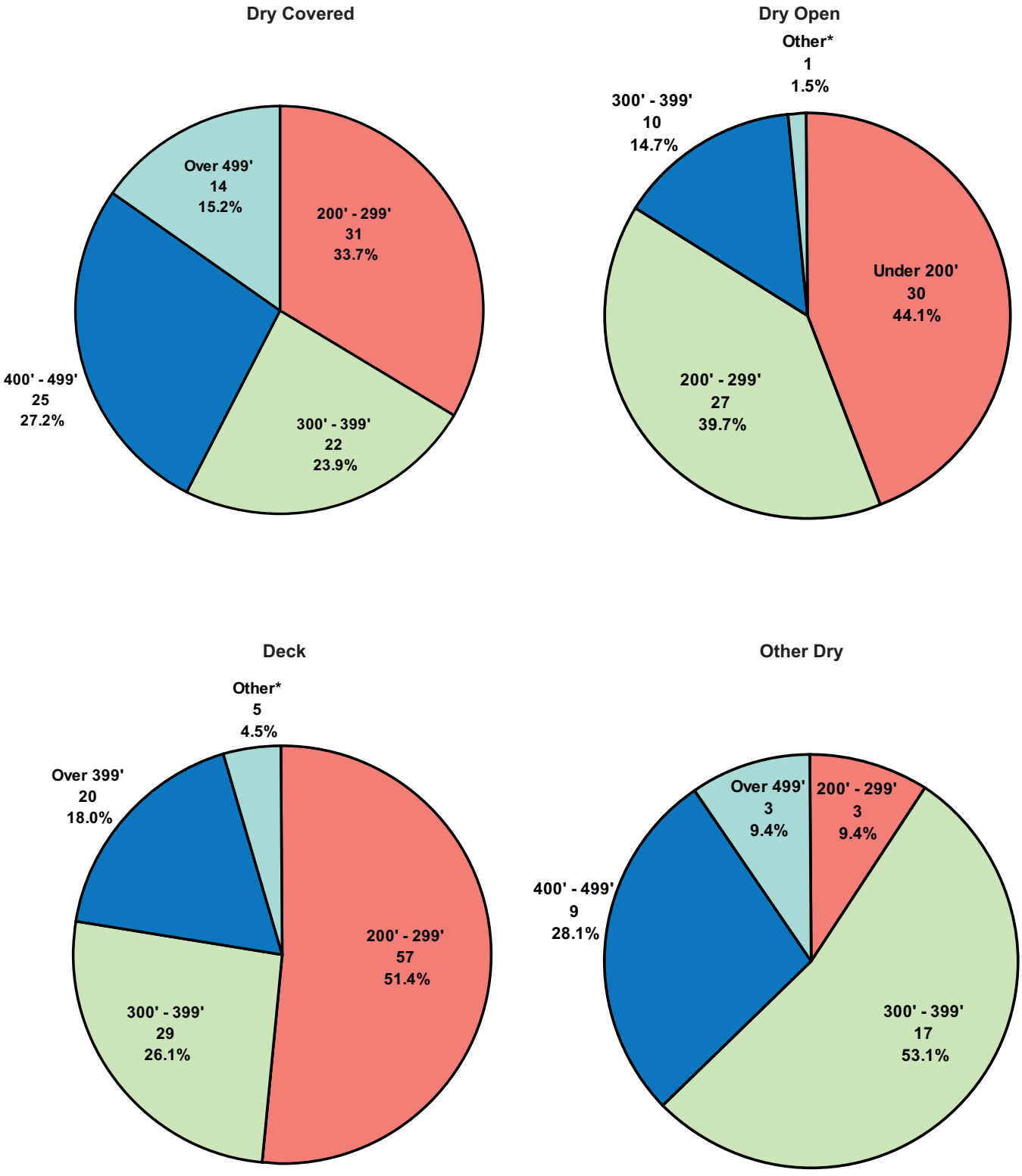
* Other size category represents the combined number of vessels for size groups with less than 5.5% of the total for the barge type.

TABLE 11: SUMMARY OF THE UNITED STATES DEEP DRAFT[1] DRY CARGO BARGE FLEET BY BARGE TYPE AND SIZE FOR 1999

Barge Size[2]	Total Barges		Cargo Capacity[3]			
	Number	% Total	Total	% Total	Average	Age[4]
Barge Type: Dry Covered						
200' - 299'	31	33.7	134,830	10.9	4,349	21
300' - 399'	22	23.9	216,280	17.6	9,831	20
400' - 499'	25	27.2	440,642	35.8	17,626	27
Over 499'	14	15.2	439,825	35.7	31,416	19
Total Dry Covered	**92**	**(30.4)**	**1,231,577**	**(45.8)**	**13,387**	**22**
Barge Type: Dry Open						
Under 200'	30	44.1	69,357	22.0	2,312	45
200' - 299'	27	39.7	136,909	43.5	5,071	22
300' - 399'	10	14.7	85,300	27.1	8,530	17
Over 399'	1	1.5	23,000	7.3	23,000	29
Total Dry Open	**68**	**(22.4)**	**314,566**	**(11.7)**	**4,626**	**32**
Barge Type: Deck						
Under 200'	4	3.6	9,153	1.1	2,288	36
200' - 299'	57	51.4	289,952	33.3	5,178	17
300' - 399'	29	26.1	283,637	32.6	9,781	18
Over 399'	20	18.0	282,079	32.4	14,104	22
NEI	1	0.9	5,400	0.6	5,400	21
Total Deck	**111**	**(36.6)**	**870,221**	**(32.4)**	**7,911**	**19**
Barge Type: Other Dry[5]						
200' - 299'	3	9.4	17,792	6.6	5,931	21
300' - 399'	17	53.1	112,534	41.7	6,620	17
400' - 499'	9	28.1	102,084	37.8	11,343	25
Over 499'	3	9.4	37,500	13.9	12,500	25
Total Other Dry	**32**	**10.6**	**269,910**	**(10.0)**	**8,435**	**21**
Total Dry Cargo	**303**	**100.0**	**2,686,274**	**100.0**	**8,895**	**23**

1 Based on the loaded draft of the vessel; deep draft is defined as greater than 14 feet.
2 Size refers to the overall length and breadth of the vessel in feet rounded to the nearest foot. NEI (not elsewhere included) refers to the barges that do not fall within the dimensions stated.
3 Capacity specifies the full load capacity in short tons (2,000 lbs). Average is calculated from only those vessels with known capacity and not the total number of vessels.
4 Age is based upon the year the vessel was built or rebuilt. Average is calculated from only those vessels with a known age and not the total number of vessels.
5 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.

FIGURE 11: SUMMARY OF THE UNITED STATES DEEP DRAFT DRY CARGO BARGE FLEET BY BARGE TYPE AND SIZE FOR 1999



* Other size category represents the combined number of vessels for size groups with less than 5.5% of the total for the barge type.

FIGURE 12: SUMMARY OF THE UNITED STATES SHALLOW AND DEEP DRAFT[1] VESSELS BY VESSEL TYPE FOR 1999

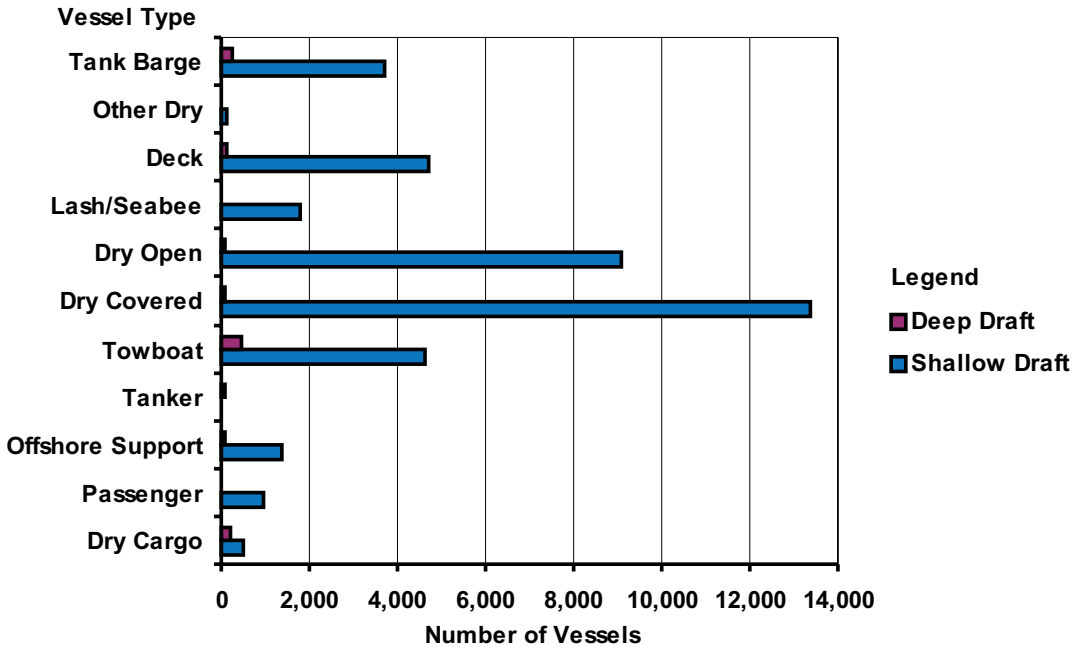


TABLE 12: SUMMARY OF THE UNITED STATES SHALLOW AND DEEP DRAFT VESSELS BY VESSEL TYPE FOR 1999

Vessel Type	Shallow Draft Vessels				Deep Draft Vessels			
	Number	% Total of Type	Average Draft	Average Age	Number	% Total of Type	Average Draft	Average Age
Vessels (total)[2]	**40,318**	**96.6**	**9**	**19**	**1,417**	**3.4**	**22**	**21**
Self-Propelled (total)	**7,497**	**89.8**	**8**	**25**	**852**	**10.2**	**23**	**20**
Dry Cargo (total)	487	70.3	8	25	206	29.7	31	22
Dry Bulk	6	8.8	11	34	62	91.2	29	27
Containership	0	-	-	-	74	100.0	37	18
General Cargo	278	86.9	8	27	42	13.1	31	21
Specialized	203	87.9	7	22	28	12.1	18	23
Passenger	959	99.4	5	21	6	0.6	21	31
Offshore Support	1,378	94.1	8	17	86	5.9	17	8
Tanker	28	19.7	10	43	114	80.3	40	20
Towboat	4,645	91.3	8	28	440	8.7	17	21
Non-Self-Propelled (total)	**32,817**	**98.3**	**9**	**18**	**565**	**1.7**	**20**	**22**
Dry Barge (total)	29,106	99.0	9	17	303	1.0	18	23
Dry Covered	13,385	99.3	10	15	92	0.7	22	22
Dry Open	9,078	99.3	9	15	68	0.7	18	32
Lash / Seabee	1,796	100.0	9	22	0	-	-	-
Deck	4,727	97.7	8	22	111	2.3	16	19
Other Dry[3]	120	78.9	9	23	32	21.1	16	21
Tank Barge (total)	3,711	93.4	10	22	262	6.6	21	22
Single Hull	578	84.4	10	30	107	15.6	21	24
Double Hull	2,550	97.3	10	20	71	2.7	23	16
Other Tank[4]	583	87.4	9	25	84	12.6	21	24

1 Based on the loaded draft of the vessel; shallow draft is defined as less than or equal to 14 feet and deep draft is greater than 14 feet.
2 Total is greater than the sum because of 4 unclassified vessels and 31 vessels with unknown draft; includes vessels available for operation.
3 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.
4 Includes tank barges that may be double sided only, double bottom only, or not elsewhere included.

FIGURE 13: SUMMARY OF THE UNITED STATES FLAG VESSELS: AVAILABLE VERSUS OPERATING[1] BY VESSEL TYPE FOR 1999

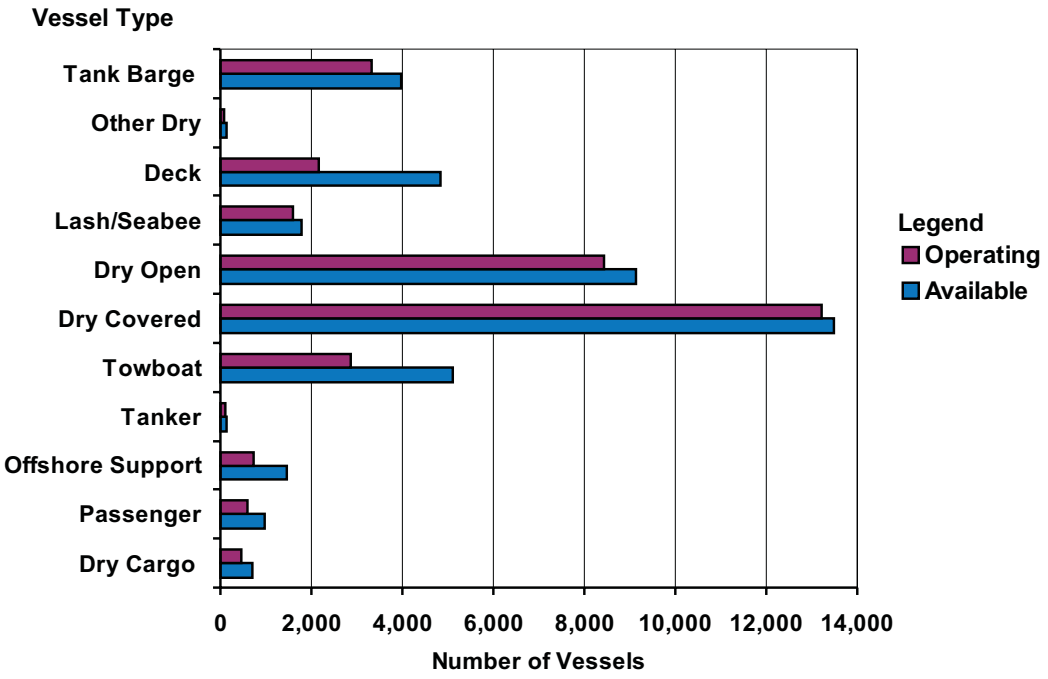


TABLE 13: SUMMARY OF THE UNITED STATES FLAG VESSELS: AVAILABLE VERSUS OPERATING[1] BY VESSEL TYPE FOR 1999

Vessel Type	Vessels Availabie (WTLUS)	Vessels Operating (VOR)	% Operating	Total Operating Vessel Companies[2]
Vessels (total)	**41,766**	**33,558**	**80.3**	**1,174**
Self-Propelled (total)[3]	**8,379**	**4,747**	**56.7**	**1,001**
Dry Cargo (total)	695	448	64.5	135
Dry Bulk	68	57	83.8	15
Containership	74	49	66.2	3
General Cargo	320	186	58.1	92
Specialized	233	156	67.0	41
Passenger	970	599	61.8	285
Offshore Support	1,470	719	48.9	120
Tanker	142	113	79.6	41
Towboat	5,098	2,867	56.2	670
Non-Self-Propelled (total)	**33,387**	**28,811**	**86.3**	**467**
Dry Barge (total)	29,414	25,475	86.6	313
Dry Covered	13,477	13,222	98.1	166
Dry Open	9,146	8,426	92.1	149
Lash / Seabee	1,796	1,598	89.0	3
Deck	4,842	2,159	44.6	207
Other Dry[4]	153	70	45.8	37
Tank Barge (total)	3,973	3,336	84.0	200
Single Hull	685	522	76.2	96
Double Hull	2,621	2,341	89.3	129
Other Tank[5]	667	473	70.9	108

1 Vessels which are available for operation and reported on the 1999 Waterborne Transportation Lines (WTLUS) Annual Questionnaire versus those that are actually operating in 1999 and reported on the Vessel Operation Reports (VORs).
2 Vessel Companies may operate more than one type of vessel during the year.
3 Total is greater than the sum because of unclassified vessels; includes vessels available for operation.
4 Includes dry cargo barges that may be open or covered, railroad car, pontoon, RO-RO, container, or convertible.
5 Includes tank barges that may be double sided only, double bottom only, or not elsewhere included.

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14. ABSTRACT

Waterborne Transportation Lines of the United States - Volume 1 is one of three publications for the annual revision of the WTLUS.
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- Condensation of Vessel Data
- Vessel characteristics are represented in both tabular and graphic form.

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Shipping Transportation Lines - Waterborne Transportation Data

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